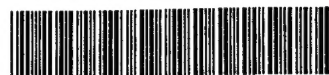


TEAC



TEAC -00402

SERVICE MANUAL

A-R500/A-R300

Integrated Stereo Amplifier

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- Δ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [] mark can be used only with the version designated.
[GE]: GENERAL EXPORT [E]: EUROPE [UK]: U. K. [A]: AUSTRALIA

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SPECIFICATIONS

Continuous Power Output:

A-R500

RMS : 90W+90W

(20–20,000Hz, 8 ohms, THD 0.08%)

DIN : 100W+100W(1kHz, 8 ohms)

A-R300

RMS : 45W+45W

(20–20,000Hz, 8ohms, THD 0.08%)

DIN : 50W+50W(1kHz, 8 ohms)

Total Harmonic Distortion:

0.05%(1kHz, 8 ohms, continuous rated power output)

Input Sensitivity/Impedance:

PHONO:2.8mV/47k ohms

CD, TUNER, AUX, TAPE, VCR:190mV/47k ohms

Signal-to-Noise Ratio(IHF-A):

A-R500

PHONO : 70dB(5mV)

CD, TUNER, AUX, TAPE, VCR : 90dB

A-R300

PHONO : 65dB(5mV)

CD, TUNER, AUX, TAPE, VCR : 85dB

Output Level/Impedance:

TAPE : 150mV/3.3k ohms

Frequency Response:

PHONO : 20-20,000Hz, ± 1 dB(RIAA)

CD, TUNER, AUX, TAPE, VCR:

10-80,000 Hz, ± 1 -3 dB

Tone Control:

BASS : ± 10 dB(100Hz)

TREBLE : ± 10 dB(10kHz)

Muting :

-20dB

Power Requirements/Power Consumption :

A-R500

230V AC, 50Hz, 350W(Europe)

115/230V AC, 50-60Hz, 350W(General Export)

A-R300

230V AC, 50Hz, 195W(Europe)

115/230V AC, 50-60Hz, 195W(General Export)

Dimensions(W × H × D) :

435 × 135 × 340mm

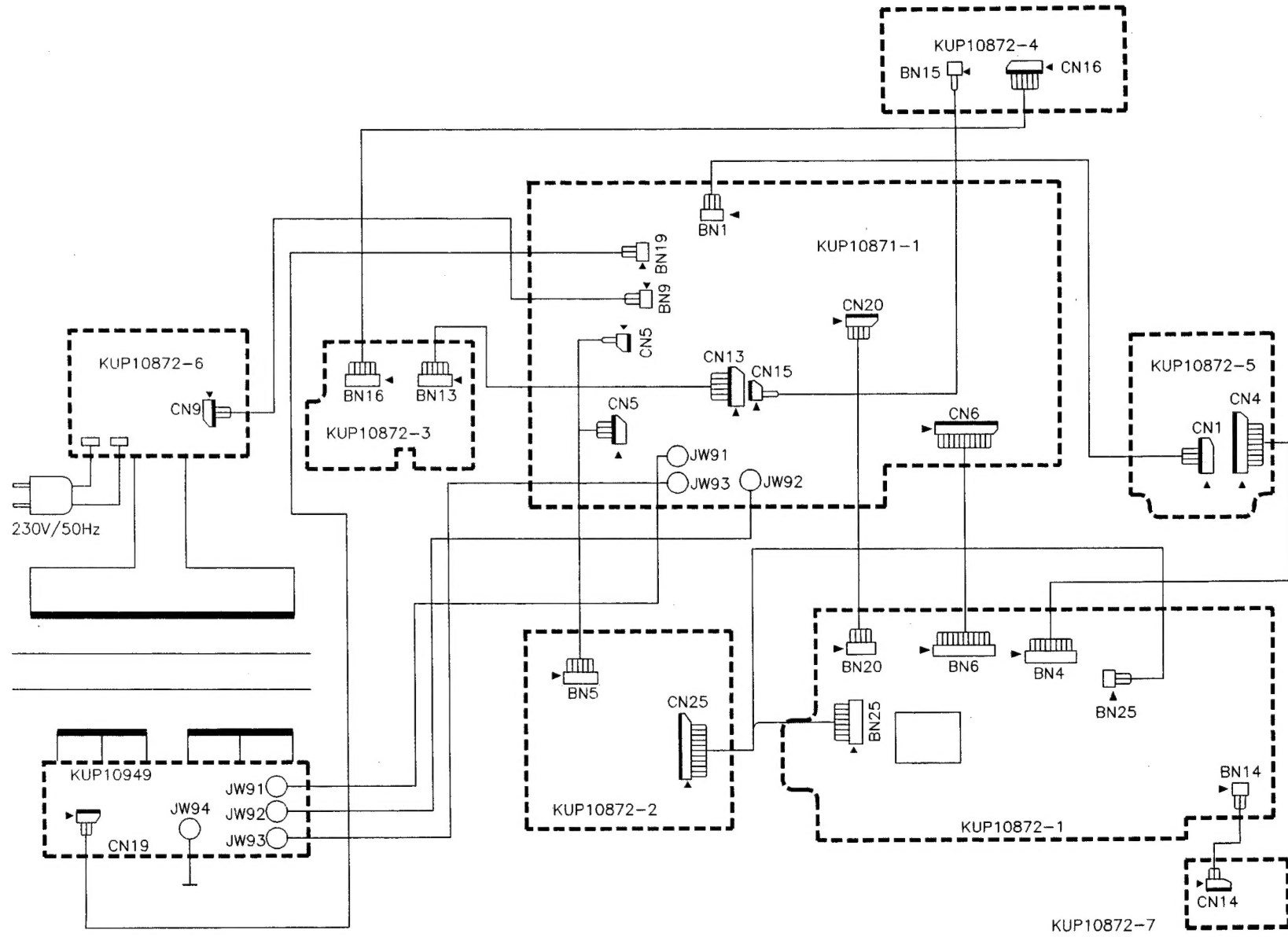
Weight(net) :

A-R500 : 9.9Kg

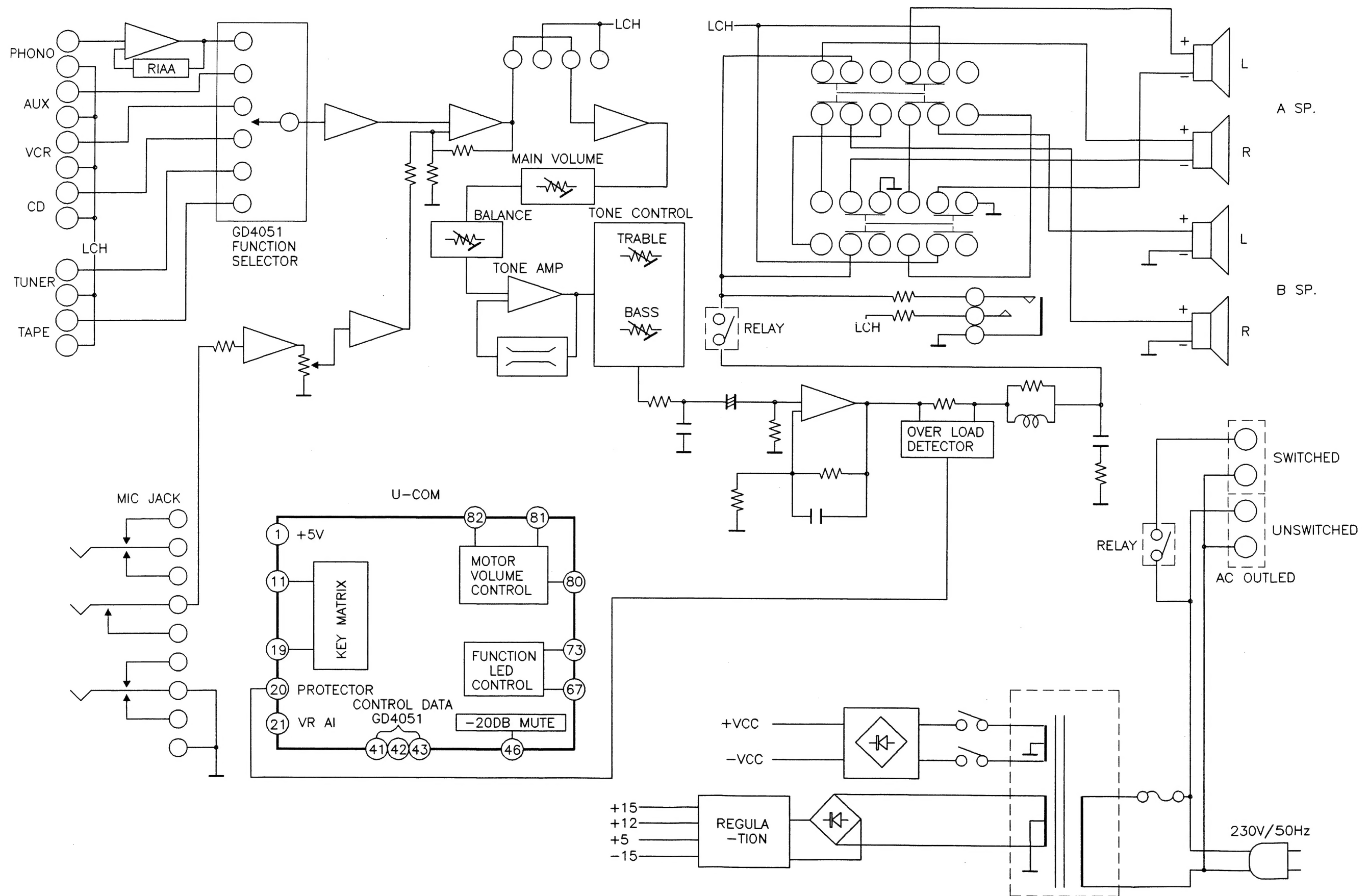
A-R300 : 8.2Kg

- Improvements may result in specifications and features changing without notice.
- Illustrations may differ slightly from production models.

WIRING DIAGRAM

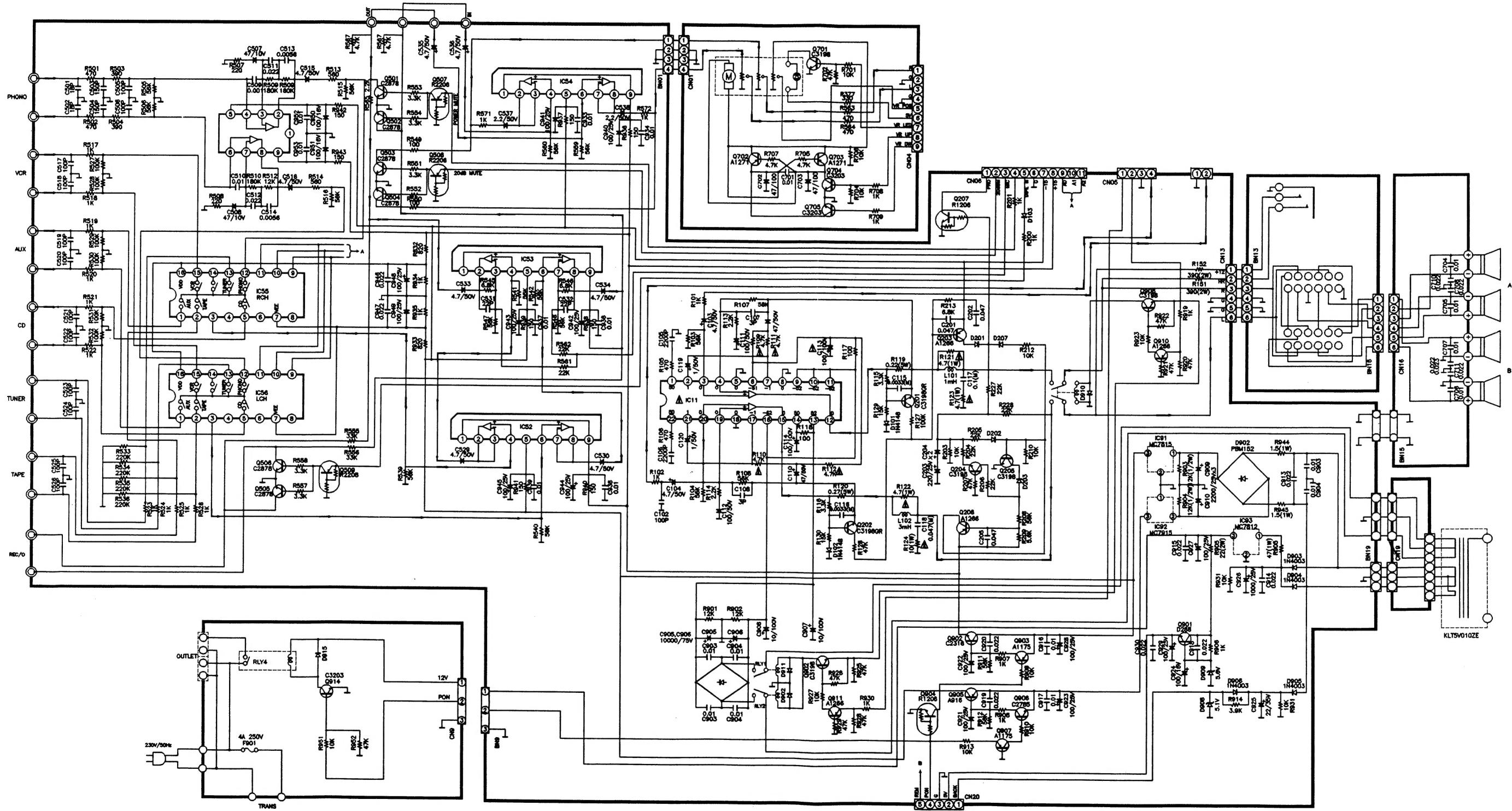


BLOCK DIAGRAM

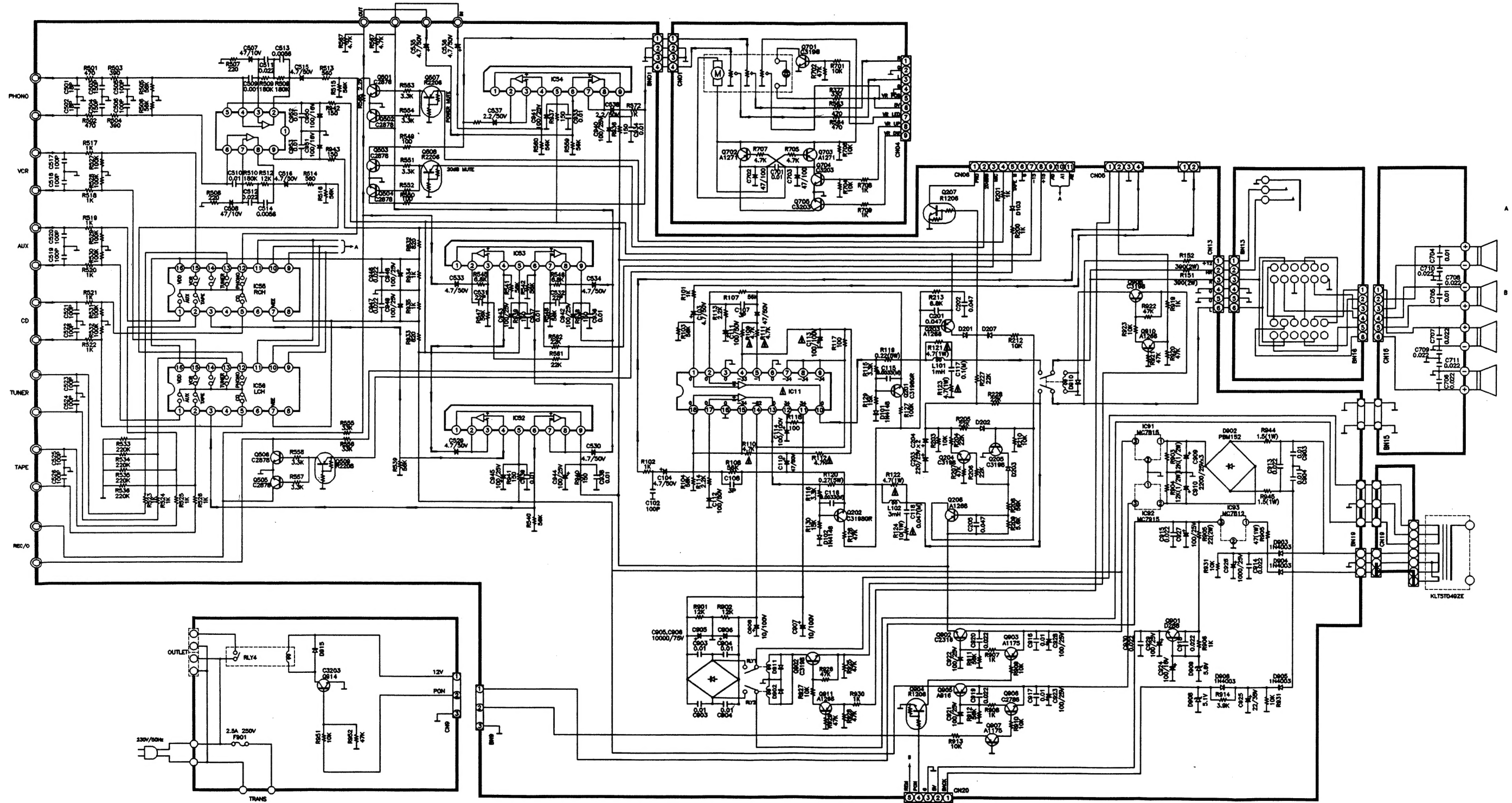


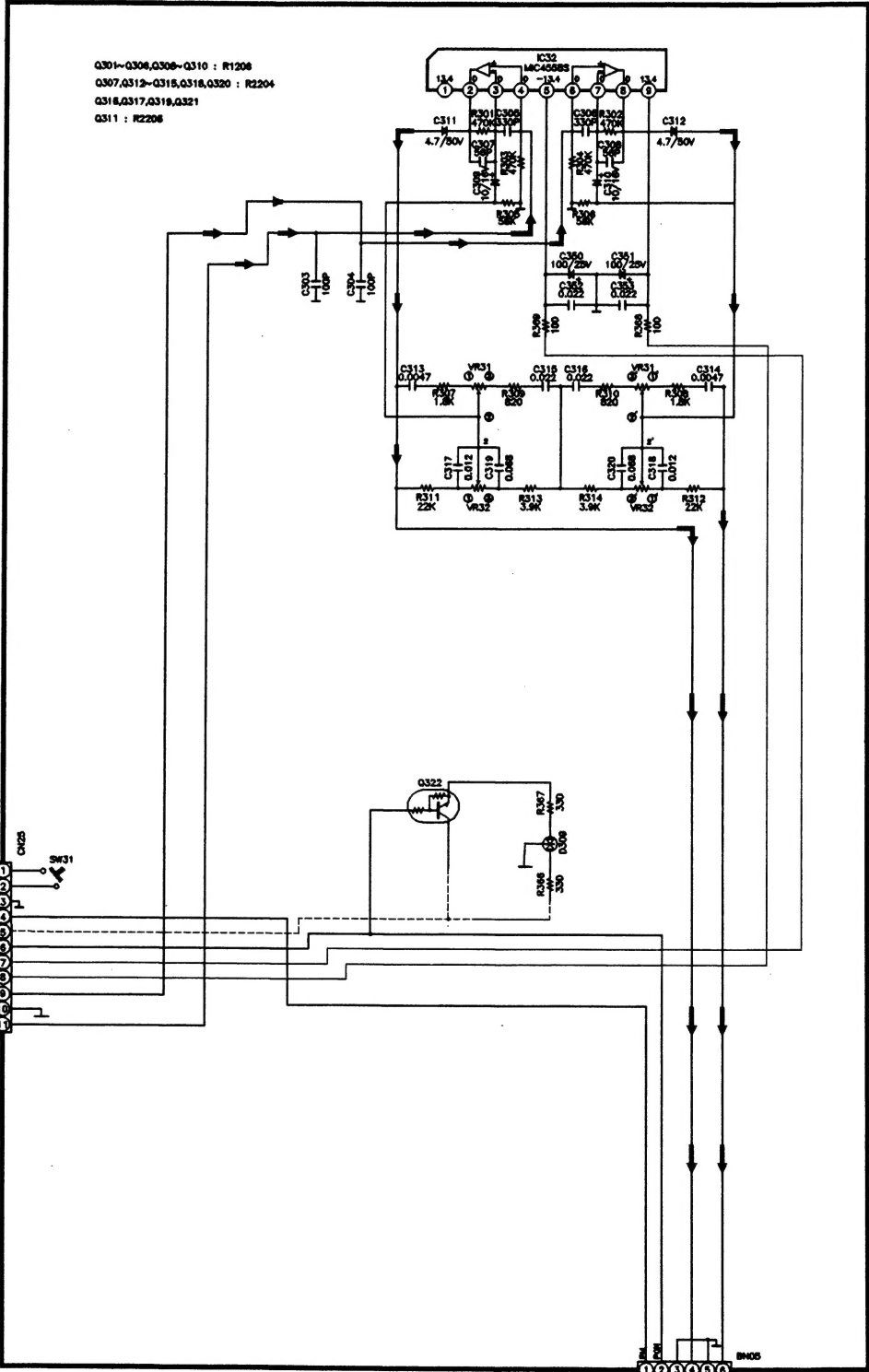
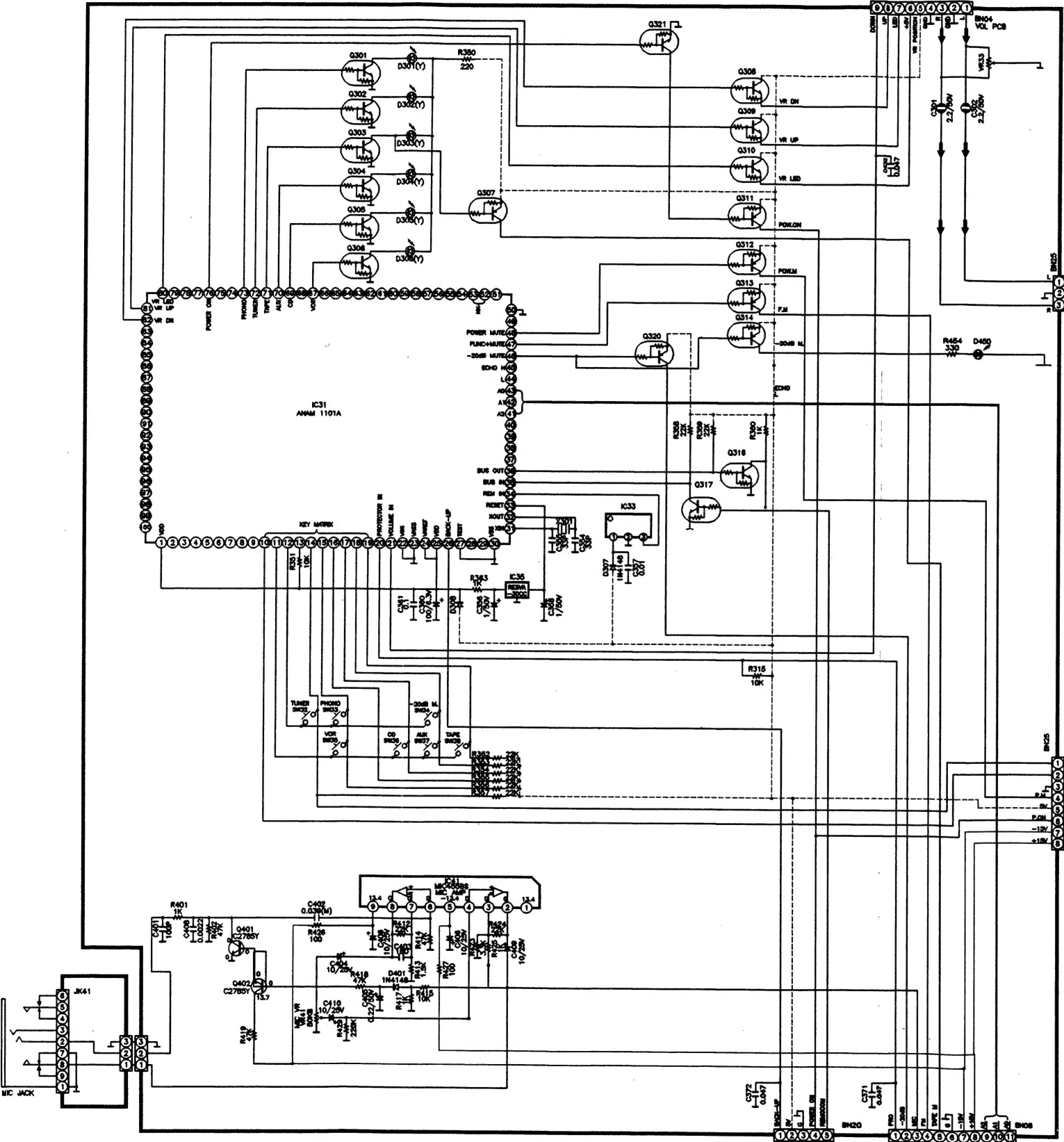
SCHEMATIC DIAGRAM

A-R500 (MAIN)



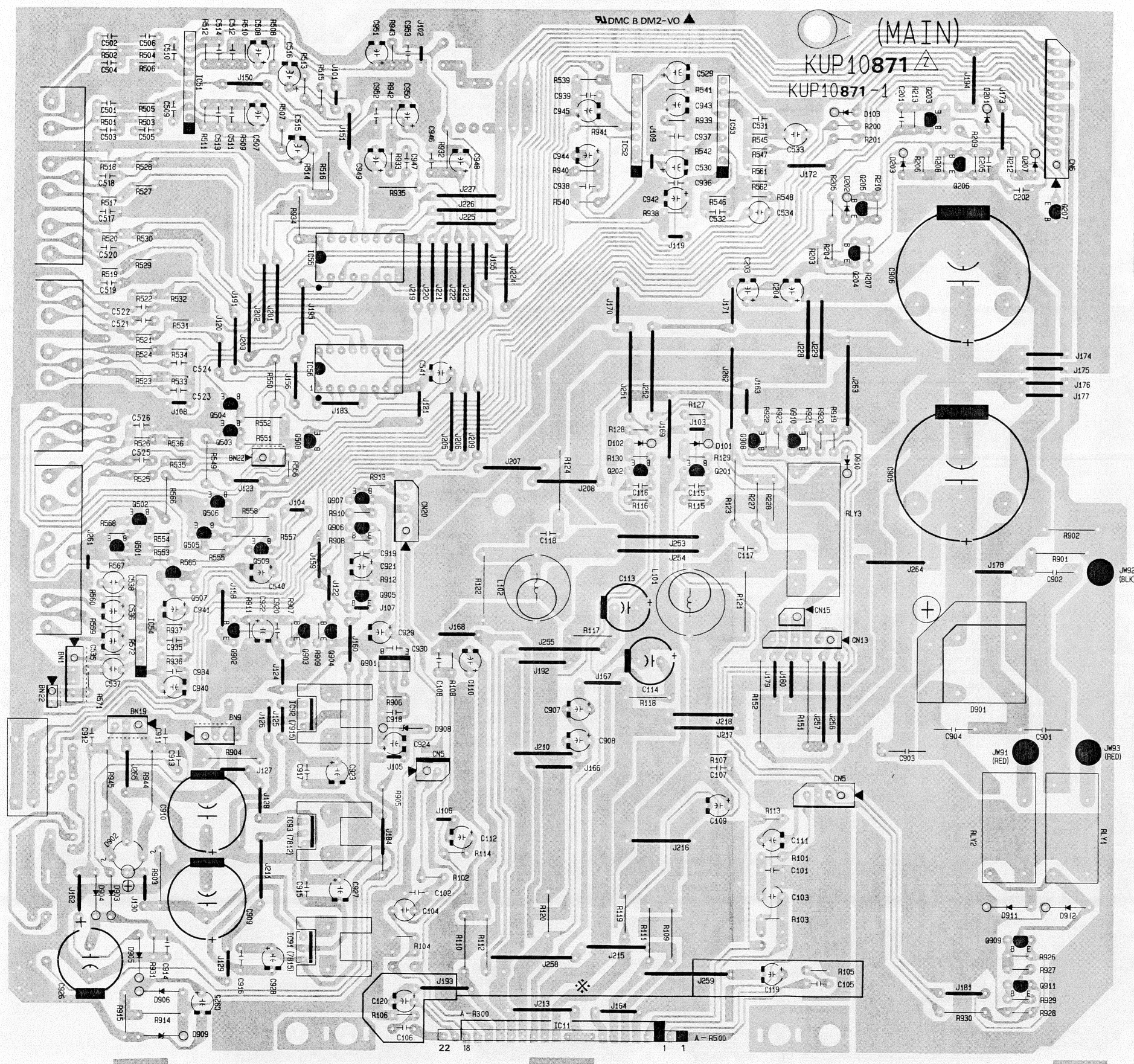
A-R300 (MAIN)



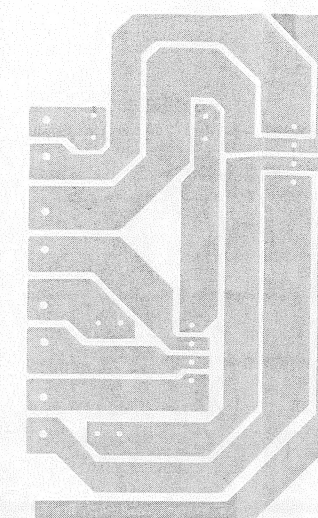


PRINTED CIRCUIT BOARDS

- MAIN PCB



13

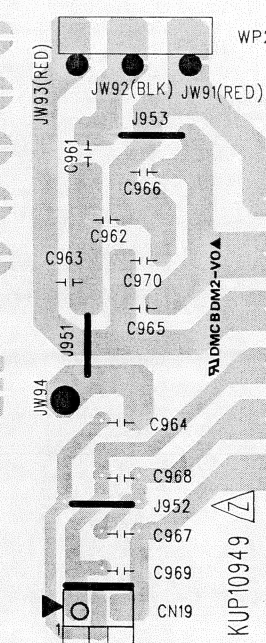
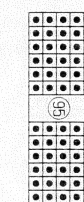


※ : A-R 500 (100W)

IC 11

A-R 500: 22 PIN

A-R300: 18 PIN



14

• SUB PCB

KUP10872-3

KUP10872

KUP10872-4

KUP10872-2

KUP10872-6

KUP10872-1

KUP10872-5

BLK RED

WP1

A-R300 : F2.5L 250V

A-R500 : F4L 250V

F901

RLY4

D915

Q914

R951

R952

VR32

VR31

VR33

VR41

VR71

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VR36

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VR393

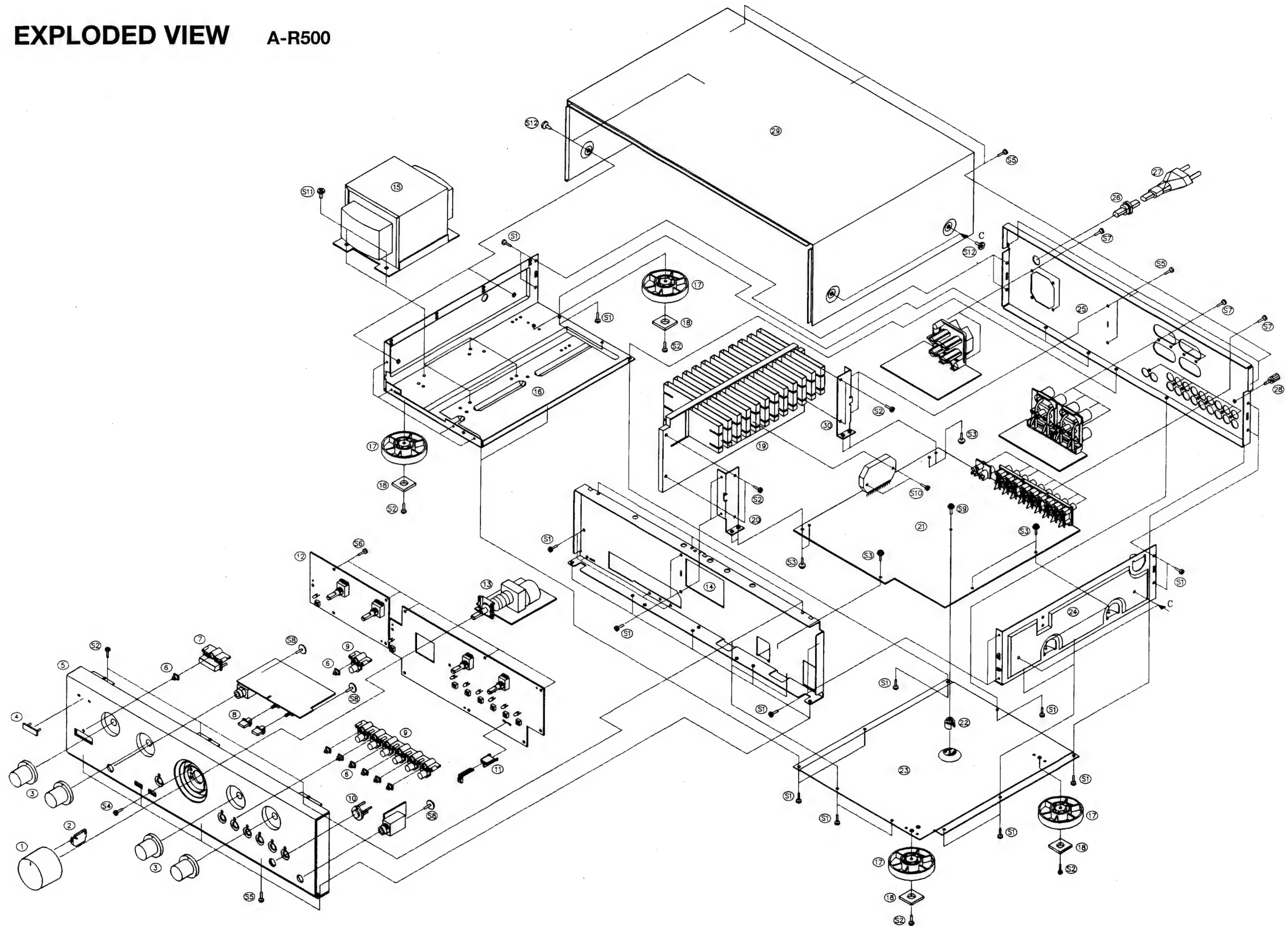
VR394

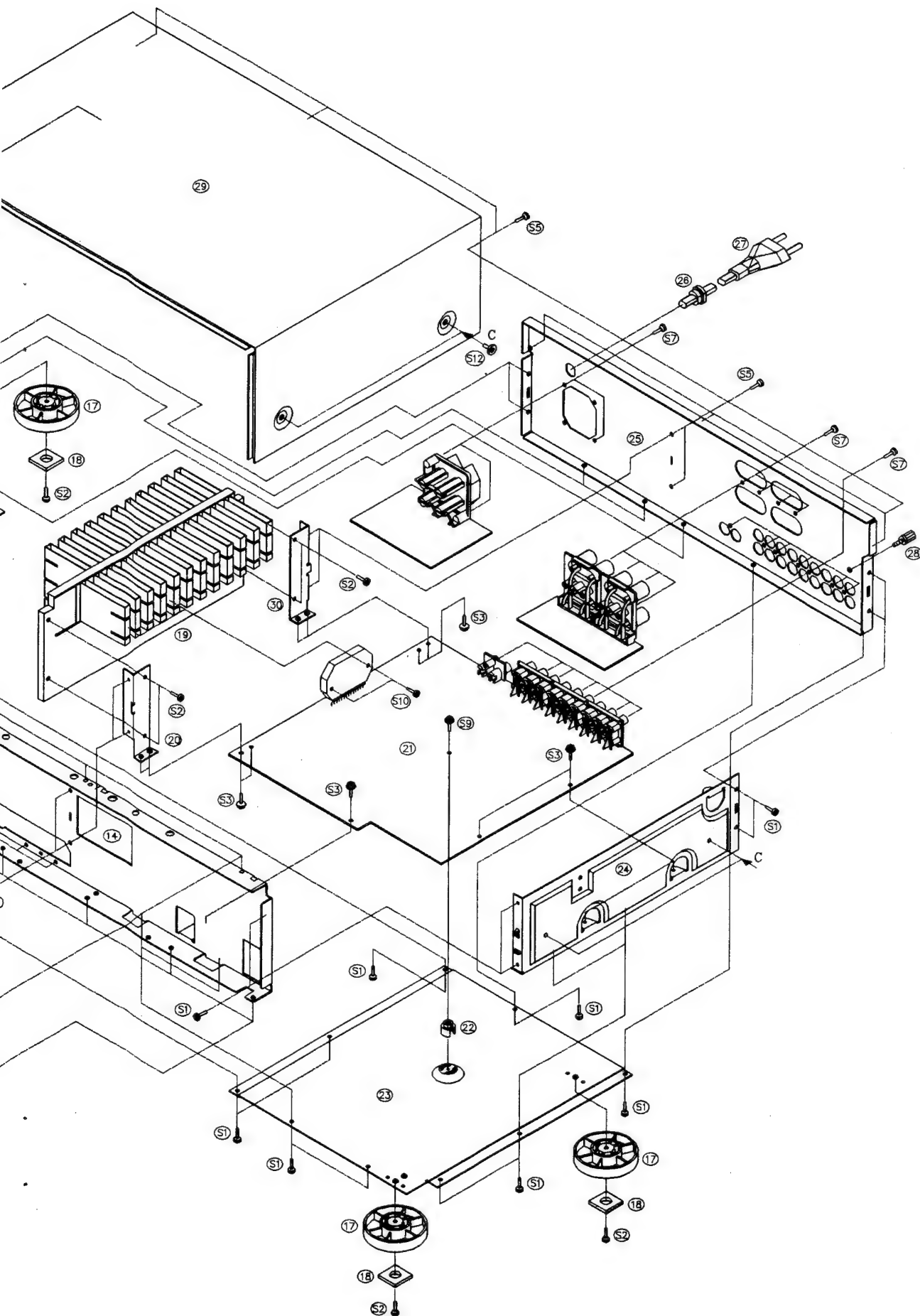
VR395

VR396

VR39

EXPLODED VIEW A-R500





EXPLODED VIEW [A-R500]

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|------------------|---------|
| 1 | 9A05886600 | KNOB,VOLUME | |
| 2 | 9A05886700 | INDICATOR,VOL | |
| 3 | 9A05886800 | KNOB,ROTARY | |
| 4 | 9A05325000 | BADGE,TEAC | |
| 5 | 9A05886900 | PANEL,FRONT | |
| 6 | 9A05887000 | INDICATOR,FUNC | |
| 7 | 9A05887200 | KNOB,POWER | |
| 8 | 9A05887300 | KNOB,SPEAKER | |
| 9 | 9A05887400 | KNOB,TACT | |
| 10 | 9A05887500 | ORNAMENT,REMOTE | |
| 11 | 9A05887600 | HOLDER,REMOTE | |
| 12 | 9A05918710 | SUB PCB ASSY | |
| | | VOLUME PCB ASSY | |
| 14 | 9A05891100 | CHASSIS,FRONT | |
| 15 | Δ 9A05891200 | TRANS,POWER [E] | |
| | Δ 9A05897500 | TRANS,POWER [GE] | |
| 16 | 9A05891300 | CHASSIS,BOTTOM | |
| 17 | 9A05891400 | FOOT,FRONT | |
| 18 | 9A05891500 | FOOT,CUSHION | |
| 19 | 9A05891600 | HEAT SINK | |
| 20 | 9A05923800 | BRACKET,HEAT | |
| 21 | 9A05891910 | MAIN PCB ASS'Y | |
| 22 | 9A01375500 | PCB HOLDER | |
| 23 | 9A05891900 | PLATE,BOTTOM | |
| 24 | 9A05892000 | GUIDE,BOTTOM | |
| 25 | 9A05892100 | PANEL,REAR | |
| 26 | Δ 9A01376900 | CORD PUSHING | |
| 27 | Δ 9A05892200 | CORD, POWER [E] | |
| | Δ 9A05897600 | COED, POWER [GE] | |
| 28 | 9A04883700 | GROUND TERMINAL | |
| 29 | 9A05892300 | CABINET, TOP | |
| 30 | 9A05923000 | BRACKET,HEAT | |
| S1 | 9A01532600 | SCREW | |
| S2 | 9A01535800 | SCREW,KTB3*8J | |
| S3 | 9A05339200 | SCREW KTW3+8J | |
| S4 | 9A05892400 | SCREW | |
| S5 | 9A01377200 | SCREW | |
| S6 | 9A01377400 | SCREW,KTB3*10G | |
| S7 | 9A01377300 | SCREW | |
| S8 | 9A01377600 | SCREW | |
| S9 | 9A05339100 | SCREW KTW3+12J | |
| S10 | 9A05338500 | SCREW KTB3+16J | |
| S11 | 9A01477800 | SCREW,KTB4*8F | |
| S12 | 9A01397700 | SCREW | |

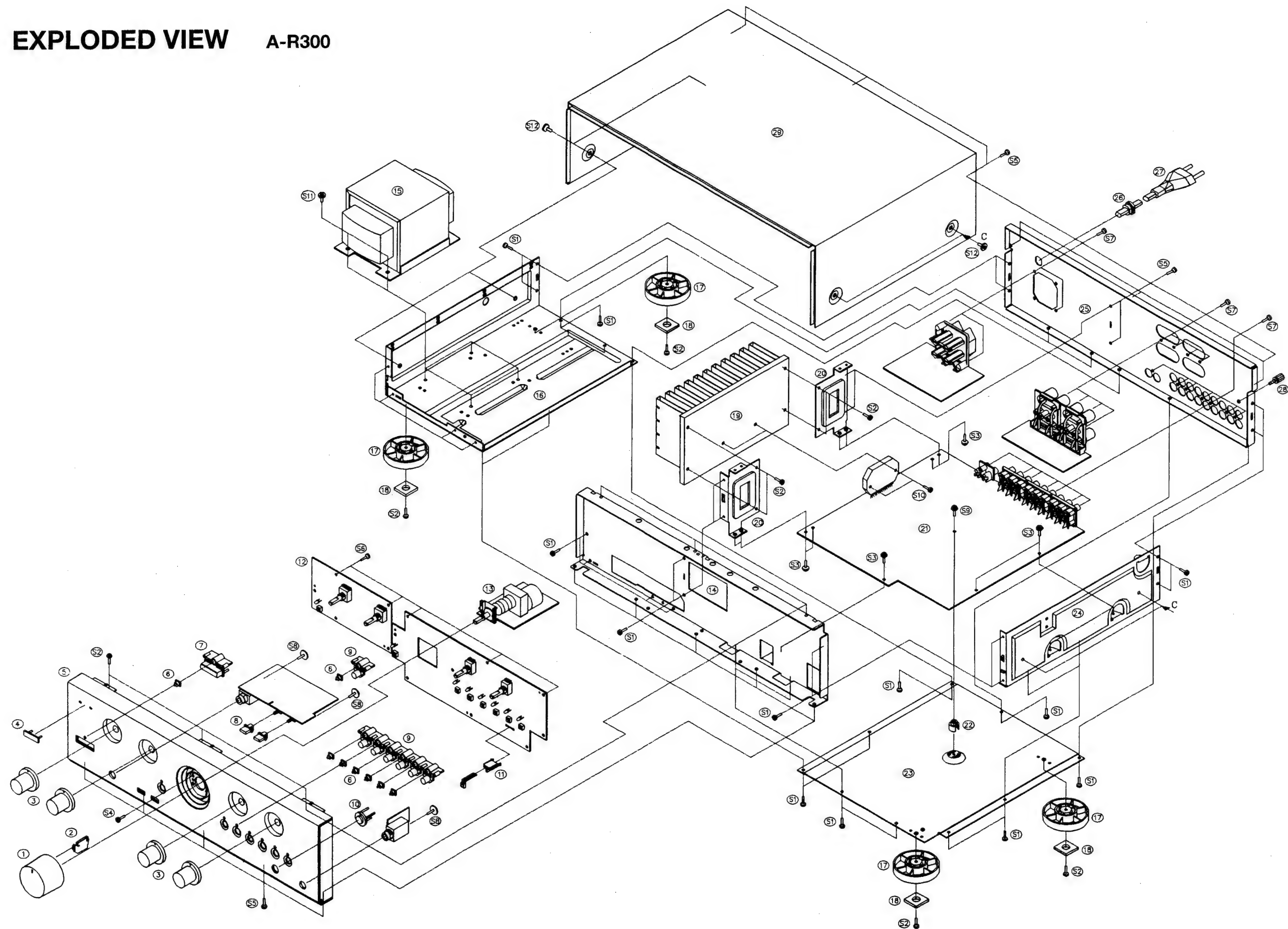
INCLUDED ACCESSORIES

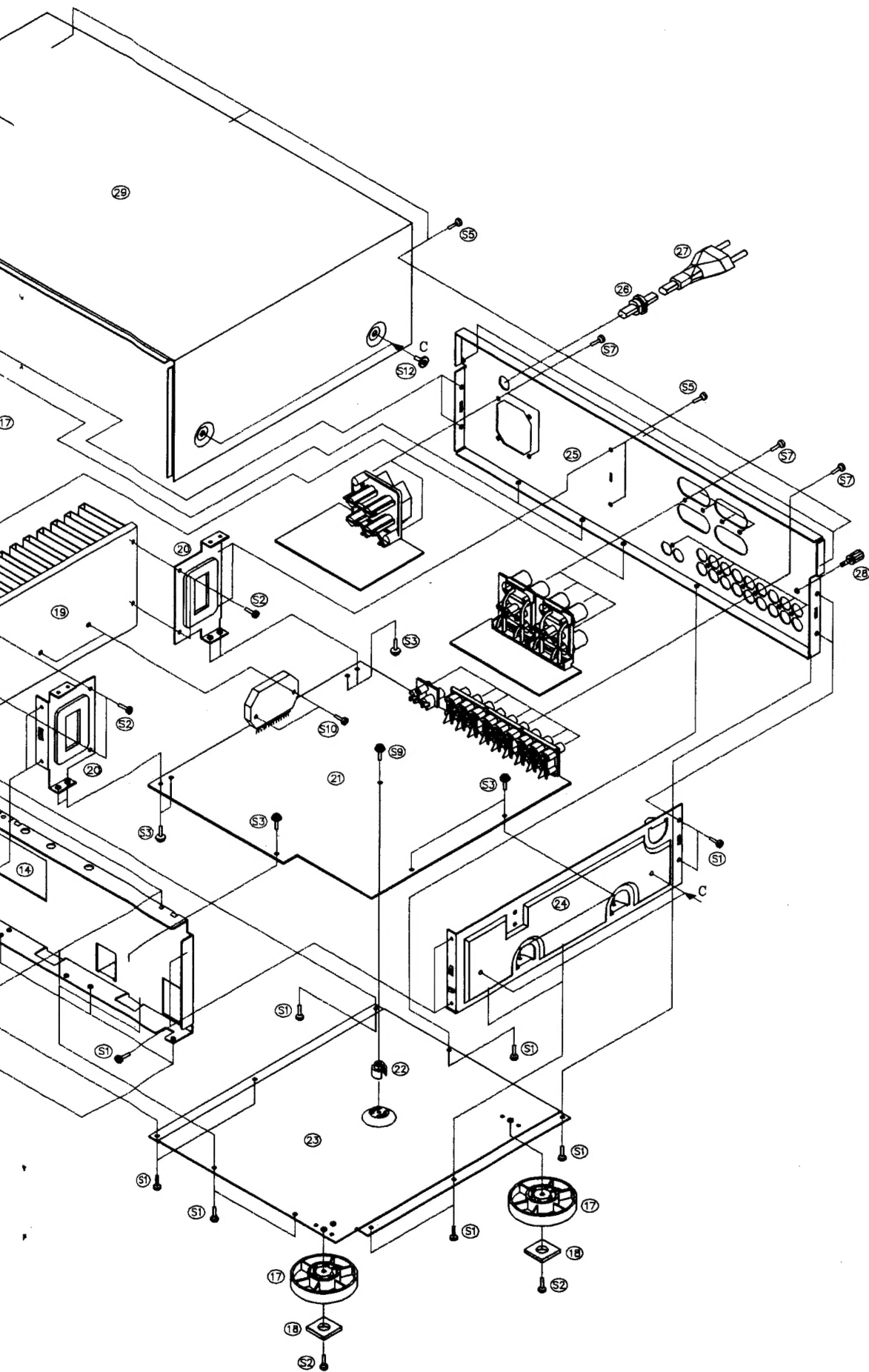
| Ref. No. | Part No. | Description | Remarks |
|----------|------------|----------------------------|---------|
| | 9A05573400 | OWNER'S MANUAL, A-R500/300 | |
| | 9A05808200 | REMOTE TRANSMITTER ASSY | |

Parts marked with * require longer delivery time.

[E] : EUROPE [GE] : GENERAL EXPORT

EXPLODED VIEW A-R300





EXPLODED VIEW [A-R300]

| Ref. No. | Part No. | Description | Remarks |
|----------|--------------|------------------|---------|
| 1 | 9A05886600 | KNOB,VOLUME | |
| 2 | 9A05886700 | INDICATOR,VOL | |
| 3 | 9A05886800 | KNOB,ROTARY | |
| 4 | 9A05325000 | BADGE,TEAC | |
| 5 | 9A05886900 | PANEL,FRONT | |
| 6 | 9A05887000 | INDICATOR,FUNC | |
| 7 | 9A05887200 | KNOB,POWER | |
| 8 | 9A05887300 | KNOB,SPEAKER | |
| 9 | 9A05887400 | KNOB,TACT | |
| 10 | 9A05887500 | ORNAMENT,REMOTE | |
| 11 | 9A05887600 | HOLDER,REMOTE | |
| 12 | 9A05918700 | SUB PCB ASSY | |
| 13 | | VOLUME PCB ASSY | |
| 14 | 9A05891100 | CHASSIS,FRONT | |
| 15 | Δ 9A05897800 | TRANS,POWER [E] | |
| | Δ 9A05910000 | TRANS,POWER [GE] | |
| 16 | 9A05891300 | CHASSIS,BOTTOM | |
| 17 | 9A05891400 | FOOT,FRONT | |
| 18 | 9A05891500 | FOOT,CUSHION | |
| 19 | 9A05891600 | HEAT SINK | |
| 20 | 9A05891700 | BRACKET,HEAT | |
| 21 | 9A05919000 | MAIN PCB ASSY | |
| 22 | 9A01375500 | PCB HOLDER | |
| 23 | 9A05891900 | PLATE,BOTTOM | |
| 24 | 9A05892000 | GUIDE,BOTTOM | |
| 25 | 9A05892100 | PANEL,REAR | |
| 26 | Δ 9A01376900 | CORD PUSHING | |
| 27 | Δ 9A05892200 | CORD, POWER [E] | |
| | Δ 9A05897600 | CORD, POWER [GE] | |
| 28 | 9A04883700 | GROUND TERMINAL | |
| 29 | 9A05892300 | CABINET, TOP | |
| S1 | 9A01532600 | SCREW | |
| S2 | 9A01535800 | SCREW,KT B3*8J | |
| S3 | 9A05339200 | SCREW KTW3+8J | |
| S4 | 9A05892400 | SCREW | |
| S5 | 9A01377200 | SCREW | |
| S6 | 9A01377400 | SCREW,KT B3*10G | |
| S7 | 9A01377300 | SCREW | |
| S8 | 9A01377600 | SCREW | |
| S9 | 9A05339100 | SCREW KTW3+12J | |
| S10 | 9A05338500 | SCREW KT B3+16J | |
| S11 | 9A01477800 | SCREW,KT B4*8F | |
| S12 | 9A01397700 | SCREW | |

INCLUDED ACCESSORIES

| Ref. No. | Part No. | Description | Remarks |
|----------|------------|----------------------------|---------|
| | 9A05573400 | OWNER'S MANUAL, A-R500/300 | |
| | 9A05808200 | REMOTE TRANSMITTER ASSY | |

Parts marked with * require longer delivery time.

[E] : EUROPE [GE] : GENERAL EXPORT

RESISTORS AND CAPACITORS

Notes : • Part numbers are indicated for most mechanical parts.

Please use this part number for parts order.

• **IMPORTANT SAFETY NOTICE.**

Components identified by Δ mark have special characteristics important for safety.

When replacing any of these components, use only manufacture's specified parts.

• The unit of resistance is OHM(Ω)

K=1000(Ω), M=1000(Ω)

• The unit of capacitance is MICROFARED(μ F)

P=10⁻⁶ μ F

■ Numbering System of Resistor

Example

| <u>KRD</u> Type | <u>25</u> Wattage | <u>F</u> Shape | <u>J</u> Tolerance |
|--------------------|----------------------|-------------------|-----------------------|
| KRD: Carbon | 20:1/5W | | F:= \pm 1% |
| KRG: Metal Oxide | 25:1/4W | | J:= \pm 5% |
| | 50:1/2W | | K:= \pm 10% |
| | 12:1/2W | | |
| KRF: Metal Cement | 1:1W | | |
| | 2:2W | | |
| | 3:3W | | |

■ Numbering System of Capacitor

Example

| <u>101</u> Value | <u>KCKR</u> Type | <u>1H</u> Voltage | <u>101</u> Value | <u>K</u> Tolerance | <u>B</u> Peculiarity |
|---------------------|---------------------|----------------------|---------------------|-----------------------|-------------------------|
| Capacitor Type | | Voltage | | Tolerance | |
| | | ECEA Type | Other | | |
| KCB: Ceramic | | 0J:6.3V | 1H:50V DC | C: \pm 0.25pF | |
| KDD: Ceramic | | 1A:10V | 1:125V DC | G: \pm 2% | |
| KCK: Ceramic | | 1C:16V | KC:400V AC | J: \pm 5% | |
| KCFR: Semiconductor | | 1E:25V | D25V DC | K: \pm 10% | |
| KCQI: Polyester | | 1H:50V | | Z: \pm 80%, -20% | |
| KCQP: Polypropylene | | 1V:35V | | | |
| KCQS: Polystyrol | | | | | |

MAIN PCB ASSY

| Ref. No. | Part No. | Description |
|----------|--------------|--------------------------|
| | 9A05919000 | MAIN PCB ASSY [A-R300] |
| | 9A05919010 | MAIN PCB ASSY [A-R500] |
| | 9A05893200 | MAIN PCB |
| | 9A05897400 | TERMINAL,SPEKER |
| CN05 | 9A05328900 | WAFER MOLEX 5267-02A |
| CN05 | 9A05329300 | WAFER MOLEX 5267-04A |
| CN06 | 9A05890200 | WAFER(11P) |
| CN15 | 9A05328900 | WAFER MOLEX 5267-02A |
| CN20 | 9A05894700 | WAFER(5P) |
| C103,104 | 9A05322200 | C, ELEC A1HQ4R7B |
| C905,906 | △ 9A05922400 | C.,6800UF/63V [A-R300] |
| | △ 9A05894600 | C.,6800UF/63V [A-R500] |
| C909,910 | △ 9A01402000 | C,ELEC 2200UF/25V |
| D101 | 9A01390500 | DIODE,1N4148MT |
| D103 | 9A01390500 | DIODE,1N4148MT |
| D201-203 | 9A01390500 | DIODE,1N4148MT |
| D207 | 9A01390500 | DIODE,1N4148MT |
| D902 | 9A05188900 | DIODE,PBM152F |
| D903-906 | 9A05194700 | DIODE,1N4003ST |
| D908 | △ 9A05894800 | DIODE,ZENER |
| D909 | △ 9A05194500 | DIODE,ZENER UZ5.6BMT |
| D910 | 9A01390500 | DIODE,1N4148MT |
| D911 | 9A01390600 | DIODE,1N4148T |
| IC11 | △ 9A04881100 | IC,STK4192(2) [A-R300] |
| | △ 9A05895000 | IC,STK4231(2) [A-R300] |
| IC31 | 9A05918300 | IC, BVIANAM1128R |
| IC51-54 | △ 9A05195800 | IC,MC4558S |
| IC55,56 | △ 9A04929100 | IC,GD4051B |
| IC91 | △ 9A05895100 | IC MC7815C |
| IC92 | △ 9A05895200 | IC MC7915C |
| IC93 | △ 9A05196000 | IC,MC7812C |
| L101,102 | 9A04875100 | COIL [A-R300] |
| | 9A04895800 | COIL [A-R500] |
| Q201,202 | 9A05892800 | TR.,C3198 |
| Q203 | 9A05895900 | TR.,A1266 |
| Q204,205 | 9A05892800 | TR.,C3198 |
| Q206 | 9A05895900 | TR.,A1266 |
| Q207 | 9A05196900 | TR,KSR1206T |
| Q501-506 | 9A05896000 | TR.,C2878 |
| Q507-509 | 9A03745200 | TR.,KVTKSR2206T |
| Q901 | △ 9A01388300 | TR.,KVTKSD288Y |
| Q902 | 9A05196800 | TR,KSC2316YT |
| Q903 | 9A03745100 | TR.,KVTKSA1175YT |
| Q904 | 9A05196900 | TR,KSR1206T |
| Q905 | 9A05196700 | TR,KSA916YT |
| Q906 | 9A03745000 | TR.,KVTKSC2785YT |
| Q907 | 9A03745100 | TR.,KVTKSA1175YT |
| Q908,909 | 9A05197400 | TR,KTC3203YT |
| Q910,911 | 9A05895900 | TR.,A1266 |
| RLY1,2 | 9A05897300 | RELAY |
| RLY3 | 9A01423700 | RELAY |
| RLY4 | 9A05897300 | RELAY |
| R109-112 | △ 9A05898100 | R.,3.3KOHM,1/2W [A-R300] |
| | △ 9A05896100 | R.,4.7KOHM,1/2W [A-R500] |
| R119,120 | △ 9A05896300 | R.,0.22-OHM,5W |
| R121,122 | △ 9A05896400 | R.,4.7-OHM,1W |
| R123,124 | △ 9A05338000 | R,METAL 1ANJ100H |
| R151,152 | △ 9A05896500 | R.,390-OHM,2W |
| R901-904 | △ 9A05896900 | R.,12K-OHM,1/2W |
| R905 | △ 9A05897000 | R.,22-OHM,2W |
| R944,945 | △ 9A05897200 | R.,0.47-OHM,1W |

SUB PCB ASSY

| Ref. No. | Part No. | Description |
|----------|--------------|-----------------------|
| | 9A05918700 | SUB PCB ASSY [A-R300] |
| | 9A05918710 | SUB PCB ASSY [A-R500] |
| | 9A05888100 | SUB PCB |
| CN09 | 9A05329100 | WAFER MOLEX 5267-03A |
| CN09 | 9A05329100 | WAFER MOLEX 5267-03A |
| CN13 | 9A05329600 | WAFER MOLEX 5267-06A |
| CN13 | 9A05329600 | WAFER MOLEX 5267-06A |
| CN16 | 9A05329600 | WAFER MOLEX 5267-06A |
| CN16 | 9A05329600 | WAFER MOLEX 5267-06A |
| CN25 | 9A05890200 | WAFER(11P) |
| D301,306 | 9A05890300 | LED, YCF02TO85 |
| D307 | 9A01390600 | DIODE,1N4148T |
| D309 | 9A05194300 | LED,SPR39MVW3 |
| D401 | 9A01390600 | DIODE,1N4148T |
| D450 | 9A05194300 | LED,SPR39MVW3 |
| F901 | △ 9A05306900 | FUSE F2.5A [A-R300] |
| | △ 9A05894900 | FUSE F4A [A-R500] |
| IC31 | 9A05890400 | IC, ANAM1101A |
| IC32 | 9A05195800 | IC,MC4558S |
| IC33 | 9A05424700 | IC BVIRPM638CBL |
| IC35 | 9A05317300 | I.C RE5VA30CC |
| IC41 | 9A05195800 | IC,MC4558S |
| JK04 | 9A05316900 | JACK HTJ064-05BG |
| JK05 | 9A05895400 | JACK |
| JK06 | △ 9A05895700 | OUTLET,AC |
| Q301-306 | 9A05196900 | TR,KSR1206T |
| Q307 | 9A05198800 | TR,KSR2204T |
| Q308-310 | 9A05196900 | TR,KSR1206T |
| Q311 | 9A03745200 | TR.,KVTKSR2206T |
| Q312-315 | 9A05198800 | TR,KSR2204T |
| Q316,317 | 9A03745200 | TR.,KVTKSR2206T |
| Q318 | 9A05198800 | TR,KSR2204T |
| Q319 | 9A03745200 | TR.,KVTKSR2206T |
| Q320 | 9A05198800 | TR,KSR2204T |
| Q321 | 9A03745200 | TR.,KVTKSR2206T |
| Q322 | 9A05196900 | TR,KSR1206T |
| Q323 | 9A03745000 | TR.,KVTKSC2785YT |
| Q401,402 | 9A03745000 | TR.,KVTKSC2785YT |
| Q704,705 | 9A05197400 | TR,KTC3203YT |
| RLY4 | 9A05897300 | RELAY |
| R368,369 | △ 9A01379900 | R., CARBON 1/4W 100 |
| R426,427 | △ 9A01379900 | R., CARBON 1/4W 100 |
| R450 | △ 9A05890500 | R.,100-OHM,1/2W |
| SW31-38 | 9A04882500 | SW,TACT |
| SW39 | 9A05922100 | PUSH SW |
| SW40 | 9A01393800 | SW, SP |
| VR31,32 | 9A05890600 | VR.2X01C104Z |
| VR33 | 9A05890700 | VR.1U02W104Z |
| VR41 | 9A05890800 | VR.1U01503Z |
| VR71 | 9A05893100 | VR. |
| X301 | 9A05890900 | CRYSTAL |
| | 9A01393800 | CORE |
| | 9A05917000 | CORE, FILTER RING |

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